



UNITED STAN DEPARTMENT OF COMMERCE United States Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS

Washington, D.C. 20231

APPLICATION NO.	FILING DATE	EIDCT MAMED MOST TO			
		FIRST NAMED INVENTOR	AT	ATTORNEY DOCKET NO.	
_			EXAMINER		
			ART UNIT	PAPER NUMBER	
			DATE MAILED:	7	

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

	Application No.	Applicant(s)		
Office Action Summary	09/448,613	MCCRAY JR ET AL.		
Onice Action Summary	Examiner	Art Unit		
	Richard Schnizer	1632		
The MAILING DATE of this communication appe Period for Reply	ears on the cover sheet with the co	rrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36 (a). In no event, however, may a reply be tir within the statutory minimum of thirty (30) day: will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S C. § 133).		
1) Responsive to communication(s) filed on	<u> </u>			
2a) ☐ This action is FINAL . 2b) ☑ Thi	is action is non-final.			
3) Since this application is in condition for alloward closed in accordance with the practice under a				
Disposition of Claims				
4) Claim(s) 1-70 is/are pending in the application	l.			
4a) Of the above claim(s) is/are withdraw	wn from consideration.			
5) Claim(s) is/are allowed.				
6) Claim(s) is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claims <u>1-70</u> are subject to restriction and/or e	election requirement.			
Application Papers				
9) The specification is objected to by the Examine	er.			
10) The drawing(s) filed on is/are objected t	to by the Examiner.			
11) The proposed drawing correction filed on is: a) □ approved b) □ disapproved.				
12) The oath or declaration is objected to by the E	xaminer.			
Priority under 35 U.S.C. § 119				
13) Acknowledgment is made of a claim for foreigr	n priority under 35 U.S.C. § 119(a)-(d) or (f).		
a) ☐ All b) ☐ Some * c) ☐ None of:				
 Certified copies of the priority document 	s have been received.			
2. Certified copies of the priority document	s have been received in Applicat	ion No		
 3. Copies of the certified copies of the prio application from the International Bu * See the attached detailed Office action for a list 	ıreau (PCT Rule 17.2(a)).			
14) Acknowledgement is made of a claim for dome				

Attachment(s)

15	\Box	Motion	f References	Citod	(DTO 802)	
15)	l i	Notice o	r Reterences	Cited	(PTO-892)	

16) Notice of Draftsperson's Patent Drawing Review (PTO-948)

17) Information Disclosure Statement(s) (PTO-1449) Paper No(s)

01	Interview Summary (PTO-413) Paper No(s).	
0) (interview Summary (F10-413) Faper No(5).	

18) Interview Summary (P10-413) Paper No(s).
 19) Notice of Informal Patent Application (PTO-152)

20) Other:





Art Unit: 1632

DETAILED ACTION

Election/Restriction

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- 1. Claims 1-37, 48-52, and 70, drawn to methods of increasing the susceptibility of epithelial cells to viral infection in vitro, classified in class 435, subclass 456.
- II. Claims 38-47, 68 and 69 drawn to composition for aerosol or topical delivery, classified in class 424, subclass 1.13.

The inventions are distinct, each from the other because of the following reasons.

Inventions II and I are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the composition of group II could be used to deliver a virus to any cell. In contrast, the method of group I requires delivery to epithelial cells.

Because these inventions are distinct for the reasons given above, have acquired a separate status in the art as shown by their different classification and their recognized divergent subject matter, and because each invention requires a separate, non-coextensive search, restriction for examination purposes as indicated is proper.



Application/Control Number: 09/448,613

Art Unit: 1632

Election of Species

Claim 26 is generic to a plurality of disclosed patentably distinct species comprising a retrovirus, an adenovirus, a parvovirus, a papovavirus, a paramyxovirus, and a vaccinnia virus. Lentiviruses and adeno-associated viruses are recited as species in the claim but are not included as electable species, because the claim also recites a retroviruses and a parvovirus. Lentiviruses and adeno-associated are species of retroviruses and parvoviruses, respectively. A proper Markush group does not recite members which are related as genus and species. The species available for election have been limited accordingly. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed.

Claims 29 and 64 are generic to a plurality of disclosed patentably distinct species comprising a tumor suppressor, a cytokine, an enzyme, a toxin, a membrane channel, a transcription factor, and a single chain antibody. It is noted that the claim recites additional species including a growth factor, a hormone, an enzyme, and a transcription factor. However, a cytokine is considered to be a species of growth factor, which is in turn a species of hormone. Similarly, apoptosis inducers can be either transcription factors or enzymes. A proper Markush group does not recite members which are related as genus and species. The species available for election have been limited accordingly. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed.

Claim 33 is generic to a plurality of disclosed patentably distinct species comprising lung cancer, tracheal cancer, asthma, surfactant protein B deficiency, alpha-1-antitrypsin deficiency,



Application/Control Number: 09/448,613

Art Unit: 1632

and cystic fibrosis. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species, even though this requirement is traversed.

This application contains claims directed to the following patentably distinct species of the claimed invention of groups I and II: permeabilizing agents including a hypotonic solution alone; an ion chelator alone; the combination of a hypotonic solution and an ion chelator (see claims 68 and 69); a cationic peptide; an occludin peptide; a cytoskeletal disruption agent; ether; glycerol; a neurotransmitter; FCCP; an oxidant; a mediator of inflammation; and a cytokine.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1-67, 69 and 70 are generic.

In summary, Applicant is required to elect a single disclosed permeabilizing agent, a single disclosed vector, a single disclosed gene, and a single disclosed disease for prosecution on the merits.

Applicant is advised that a reply to this requirement must include an identification of the species that are elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations





Application/Control Number: 09/448.613

Art Unit: 1632

of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Any inquiry concerning this communication or earlier communications from the examiner(s) should be directed to Richard Schnizer, whose telephone number is 103-306-5441. The examiner can normally be reached Monday through Friday between the hours of 6:20 AM and 3:50 PM.

The examiner is off on alternate Fridays, but is usually in the office anyway.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Karen Hauda, can be reached at 703-305-6608. The FAX numbers for art unit 1632 are 703-308-4242, and 703-305-3014.

Inquiries of a general nature or relating to the status of the application should be directed to the Patent Analyst Patsy Zimmerman whose telephone number is 703-308-8338.

SCOTT D. PRIEBE, PH.D. PRIMARY EXAMINER

Richard Schnizer, Ph.D.